

THE MINERAL INDUSTRY OF GUATEMALA

By David B. Doan

After Bolivia and Mexico, Guatemala has been the third largest producer of antimony in Latin America. Among the metals, Guatemala also produces gold, iron and steel, and lead. It produces some industrial minerals and a variety of construction materials, as well as a low-gravity crude oil. (See table 1.) Other minerals known to occur, but not currently worked commercially, included nickel and sulfur.

The gross domestic product was projected at \$33 billion¹ in 1994, with a growth rate estimated at about 4% in the midst of an inflation rate of about 12%. As with the overall economy, the mineral industry was dominated by the private sector. Policy for the mineral sector, including required environmental impact assessments, was set by the Ministry of Energy and Mines, which also formulated policy for the petroleum and energy industries. The Ministry of Economy was in charge of approving U.S. projects submitted under the Agreement on U.S. Capital Investment Guarantees between Guatemala and the United States. The band of external tariffs was narrowed and established at 5% to 20% as Guatemala formed a free trade area with El Salvador and Honduras. Guatemala welcomed foreign investors and began streamlining the registration process as an attraction. Mining was governed by Decree Law 69-85 of July 1985, modified by Decree Law 125-85. Small-scale mining was covered by Decree Law 55-90 of December 1990. Both laws were reformed by Congressional Decree Law 41-93 of November 1993. Petroleum activity was covered by the Hydrocarbon Law, Decree Law 109-83, and associated regulations, especially Government Edicts 1034-83 and 203-84. No law specifically covers foreign investment in Guatemala, so most of the restrictions and requirements typically found in such laws do not exist. However, restrictions on foreign investment in specific sectors do apply. The Government provides incentives for hydrocarbon investments by permitting a 100% deductible on all exploration and exploitation expenses. Petroleum investors were eligible for tax-free imports of certain goods for 5 years, suspension of duty without bond on items to be reexported, and were allowed to maintain foreign currency deposits outside the country. Mining operations were similarly allowed duty-free imports.

Mineral output in 1995 was estimated to parallel that of the year before. Antimony ore and concentrate were produced by Minas de Guatemala S.A. from several mines at Ixtahuacán, near the Department of Huehuetenango in the

western region of the country. In addition to the recovery of 94% of the antimony values, flotation also enabled the recovery of a concentrate assaying about 124 grams per ton (g/t) of gold. Output was exported mainly to Metaleurop Weser Blei GmbH in France. The company was considering the use of biotechnology for maximum recovery of gold values. The Government invited bids for the El Pato gold prospect, found by a United Nations exploration project, estimated to contain about 2 million tons (Mt) of ore grading 7 g/t of gold.

The cement, ceramics, construction, and glass industries were the country's leading users of industrial minerals. Cement, clays, feldspar, gypsum, lime, and sand and gravel were produced for the local market. Capacity of Cementos Progreso S.A.'s San Miguel plant was expanded by 20% in 1994 in preparation for an expected increase of 8% in 1995 production.

About 80% of Guatemala's oil came from the Xan Field in Peten Province. Basic Resources International Ltd. reported that the fifth Xan well, recently completed, produced 2,000 barrels per day from a depth of 2,321 meters. The company started a small refinery in the Peten area to produce asphalt, naphtha, kerosene, diesel fuel, and distillate fuel oil.

¹Where necessary, values have been converted from Guatemalan quetzals (Q) to U.S. dollars, at the rate of Q5.9=US\$1.00.

Major Sources of Information

Ministerio de Energia y Minas
Diagonal 17, entre 20 y 30 Calles, Zona 11
Guatemala City, Guatemala
Telephone: (502) (2) 76-0679 or 76-3091

Direccion General de Minería
Diagonal 17, 29-78, Zona 11
Apartado Postal 1421
Guatemala City, Guatemala

Direccion General de Hidrocarburos
Diagonal 17, 29-78, Zona 11
Guatemala City, Guatemala
Telephone: (502) (2) 76-2044
Facsimile: (502) (2) 76-3175

Major Publications

Instituto Latinoamericano Del Fierro y el Acero (ILAFA),
Santiago, Chile: Anuario Estadístico de la Siderurgia y
Minería del Hierro de América Latina, annual.

Ministerio de Energia y Minas, Guatemala: Informe
Estadístico de Energía y Minas, annual.
Ministerio de Energia y Minas, Guatemala: Memoria de
Labores, annual.

TABLE 1
GUATEMALA: PRODUCTION OF MINERAL COMMODITIES 1/ 2/

(Metric tons unless otherwise specified)

Commodity	1991	1992	1993 e/	1994 e/	1995 e/
METALS					
Antimony:					
Mine output, Sb content	609	582	600	600	610
Trioxide	41	23	30	30	30
Gold kilograms	31	32	30	30	30
Iron and steel:					
Iron ore, gross weight	5,103	1,445	3,300	3,000	3,200
Steel, crude	23,034	24,500 e/	18,000 r/ 3	18,000 r/ 3	18,000
Steel, semimanufactures	79,293	105,000 e/	90,000	90,000	91,000
Lead metal, including secondary	28	49	50	50	50
INDUSTRIAL MINERALS					
Barite	--	1,723	1,500	1,000	1,200
Cement thousand tons	1,442	1,400 e/	1,119 r/ 3	1,480	1,560
Clays:					
Bentonite	12,000	12,600	12,300	12,000	12,100
Kaolin	3,281	2,863	3,000	3,000	3,100
Unspecified	1,639	1,597	1,600	1,600	1,700
Feldspar	6,961	8,048	7,500	7,500	7,600
Gypsum	51,519	67,612	60,000	61,000	62,000
Lime e/	72,000	70,000	70,000	70,000	72,000
Pumice and related materials:					
Pumice cubic meters	6,132	6,591	6,300	6,000	6,200
Volcanic ash do.	2,476	2,400 e/	2,400	2,400	2,400
Volcanic sand e/	100,000	100,000	100,000	100,000	100,000
Volcanic scoria cubic meters	9,500	9,975	9,500	9,600	9,500
Volcanic tufa	2,476	2,600	1,900	2,000	1,900
Salt e/	100,000	100,000	100,000	100,000	100,000
Stone, sand and gravel:					
Dolomite	8,318	9,314	10,000	10,000	11,000
Limestone thousand tons	1,442	1,756	1,500	1,000	1,200
Marble:					
Block e/	9,000	9,000	7,000	7,100	7,300
Chips and fragments	1,851	1,751	1,800	1,750	1,800
Sand and gravel thousand tons	1,009	758	950	900	1,000
Schist e/	250,000	250,000	250,000	251,000	255,000
Silica sand	17,300	33,714	27,000	27,000	29,000
Stone, crushed e/ thousand tons	1,000	1,000	1,000	1,100	1,200
Talc	861	1,320	800	800	950
MINERAL FUELS AND RELATED MATERIALS					
Gas, natural, gross e/ thousand cubic meters	10,000	13,000 r/	12,000 r/	12,000 r/	12,500
Petroleum:					
Crude thousand 42-gallon barrels	1,352	2,051	1,700	1,650	1,750
Refinery products do.	4,639	5,696	5,000	5,100	5,300

e/ Estimated. r/ Revised.

1/ Estimated data are rounded to three significant digits.

2/ Table includes data available through May 1, 1996.

3/ Reported figure.

TABLE 2
GUATEMALA: STRUCTURE OF THE MINERAL INDUSTRY FOR 1995

(Thousand metric tons unless otherwise specified)

Commodity	Major operating company and major equity owners	Location of main facilities	Annual capacity
Antimony	Minas de Guatemala S.A. (private, 100%)	Los Lirios and Anabella Mines, Ixtahuacan, Huehuetenango Department	1.9
Cement	Cementos Progreso S.A. (Lambert Freres et Cie. 69.8%; other 30.2%)	San Miguel Plant, Sanarate, El Progreso Department, and La Pedrera Plant, Guatemala City	1,800
Nickel	Exploraciones y Explotaciones Mineras Izabal, S.A. [(Exmibal) (Inco, 70%; and Government, 30%) 1/]	Mine and processing plant near El Estor, Izabal Department 2/	9
Iron and steel (semimanufactures)	Hornos, S.A.	Guatemala City	80
Petroleum:			
Crude	thousand 42-gallon barrels	Basic Resources International S.A. [(Basic) (private, 100%)]	2,000
Products	do.	Texas Petroleum Co. (Texaco Inc., 100%)	6,200
Do.	do.	Basic (private, 100%)	720

1/ Ownership equity change in 1991.

2/ Mine and processing plant closed Sept. 1990.